

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Wong, et al.

Examiner: Unassigned

Serial No.: 10/615,492

Group Art Unit: Unassigned

Filed: July 7, 2003

Docket: 178-321

For: CARBON NANOTUBE ADDUCTS  
AND METHODS OF MAKING THE  
SAME

Dated: January 16, 2004

Mail Stop DD  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

I hereby certify this correspondence is being deposited  
with the United States Postal Service as first class mail,  
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on 1/16/04

Signature

INFORMATION DISCLOSURE STATEMENT

Sir:

In order to fulfill the requirements of candor and good faith set forth in 37 C.F.R.  
§ 1.56, Applicants submit herewith the following Information Disclosure Statement and Form  
PTO-1449 in accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98.

NON-PATENT PUBLICATIONS

1. Banarjee et al., "Functionalization of Carbon Nanotubes with a Metal-Containing Molecular Complex" *Nano Lett.*, 2(1):49-53 (November 1, 2001).
2. Banarjee et al., "Rational Sidewall Functionalization and Purification of Single-Walled Carbon Nanotubes by Solution-Phase Ozonolysis" *J. Phys. Chem. B*, 106:12144-12151 (November 1, 2002).
3. Banarjee et al., "Structural Characterization, Optical Properties, and Improved Solubility of Carbon Nanotubes Functionalized with Wilkinson's Catalyst" *J. Am. Chem. Soc.*, 124:8940-8948 (July 4, 2002).
4. Banarjee et al., "Synthesis and Characterization of Carbon Nanotube-Nanocrystal Heterostructures" *Nano Lett.*, 2(3):195-200 (January 12, 2002).

5. Kahn et al., "Solubilization of Oxidized Single-Walled Carbon Nanotubes in Organic and Aqueous Solvents through Organic Derivatization" *Nano Lett.*, 2(11):1215-1218 (October 2, 2002).
6. Sinnott, Susan B., "Chemical functionalization of carbon nanotubes" *Journal of Nanoscience and Nanotechnology*, 2(2):113-123 (2002).
7. Chen et al., "Chemical attachment of organic functional groups to single-walled carbon nanotube material" *J. Mater. Res.*, 13(9):2423-2431 (Sept. 1998).
8. Ebbesen, Thomas W., "Wetting, filling and decorating carbon nanotubes" *Journal of Physics and Chemistry of Solids*, 57(6-8, Proceedings of the 8th International Symposium on Intercalation Compounds, 1995):951-955 (1996).
9. Holzinger et al., "Sidewall Functionalization of Carbon Nanotubes" *Angew. Chem. Int. Ed.*, 40(21):4002-4005 (2001).
10. Chen et al., "Dissolution of Full-Length Single-Walled Carbon Nanotubes" *J. Phys. Chem. B*, 105:2525-2528 (March 10, 2001).
11. Chen, et al., "Noncovalent Sidewall Functionalization of Single-Walled Carbon Nanotubes for Protein Immobilization" *J. Am. Chem. Soc.*, 123:3838-3839 (April 18, 2001).
12. Wong, et al., "Covalently-Functionalized Single-Walled Carbon Nanotube Probe Tips for Chemical Force Microscopy" *J. Am. Chem. Soc.*, 120:8557-8558 (August 5, 1998).
13. Chen, et al., "Solution Properties of Single-Walled Carbon Nanotubes" *Science (Washington, D.C.)*, 282:95-98 (October 2, 1998).
14. Riggs, et al., "Strong Luminescence of Solubilized Carbon Nanotubes" *J. Am. Chem. Soc.* 122:5879-5880 (June 2, 2000).
15. Hamon, et al., "Dissolution of Single-Walled Carbon Nanotubes" *Adv. Mater. (Weinheim, Ger.)*, 11(10):834-840.
16. Mickelson, et al., "Fluorination of single-wall carbon nanotubes" *Chem. Phys. Lett.*, 296:188-194 (October 30, 1998).
17. Boul, et al., "Reversible sidewall functionalization of buckytubes" *Chem. Phys. Lett.*, 310:367-372 (September 3, 1999).
18. Pompeo, et al., "Water Solubilization of Single-Walled Carbon Nanotubes by Functionalization with Glucosamine" *Nano Lett.*, 2(4):369-373 (January 26, 2002).
19. Bandyopadhyaya, et al., "Stabilization of Individual Carbon Nanotubes in Aqueous Solutions" *Nano Lett.*, 2(1):25-28 (November 22, 2001).

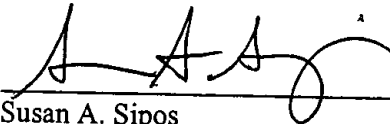
JAN 2 0 00  
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Copies of the references set forth above are enclosed herewith and a separate listing of the same has been set forth on the attached Form PTO-1449. The Examiner is respectfully requested to consider these references in their entireties, and to indicate that he or she has done so by initialing the enclosed Form PTO-1449.

In view of the present submission, it is believed that the present application is in all respects complete, and in condition for examination and favorable consideration.

If the Examiner has any questions or comments relating to the present invention, he or she is respectfully invited to contact Applicants' attorney at the telephone number set forth below.

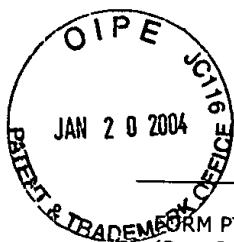
Respectfully submitted,



Susan A. Sipos  
Registration No.: 43,128  
Attorney for Applicant

HOFFMANN & BARON, LLP  
6900 Jericho Turnpike  
Syosset, New York 11791  
(516) 822-3550  
SAS/dlb/sbs

179048

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Rev. 2-32) PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.  
178-321SERIAL NO.  
10/615,492APPLICANT  
Stanislaus WongCONFIRMATION NO.  
8977FILING DATE  
July 7, 2003GROUP  
Unassigned

## U.S. PATENT PUBLICATIONS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO

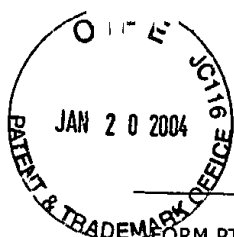
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Banarjee et al., "Functionalization of Carbon Nanotubes with a Metal-Containing Molecular Complex" <i>Nano Lett.</i> , 2(1):49-53 (November 1, 2001).
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